

Biomass to energy, Thailand

The Kangwal project reduces greenhouse gas emissions by generating climate neutral power that otherwise would have been generated by the burning of fossil fuel. It uses agricultural waste that before was of no use.

Location



This project is situated in a large polyester manufacturing plant in Phetchaburi region 120 km South-West of Bangkok. The local economy is dominated by agriculture, e.g. rice farming, fruit growing and palm sugar production.

Project

The project activity comprises the generation of thermal energy for a thermal oil heater in a polyester plant using agricultural biomass waste generated nearby the plant.

The biomass waste (i.e. rice husk, wood chips, palm and coconut shells) which is abundantly available for the project activity would otherwise have been burned in the fields or left to decay, emitting CO₂, NO_x and methane into the atmosphere.

Since all CO₂ emitted by the new power generators has been absorbed from the air by the plants beforehand this process is completely climate neutral.





Benefits

- The rice husk formerly burnt or left for decay is now being used for heat generation, therefore providing extra income opportunities for local farmers.
- The project activity results in social and economic benefits by generating employment in a deprived segment of society at the rural level for collecting, processing and supplying the biomass.
- The project reduces fossil fuel requirements by the use of a sustainable source of energy.
- Fossil fuel import requirements for the country are reduced on a permanent base.
- As compared to standard practices of burning biomass residues on the fields or leaving them to decay, the project activity improves local air quality.
- Apart from the reduction of GHG emissions, the project significantly reduces SOx and NOx emissions.



Details

KEY DATA South Pole Project No. 300132
 Average Emission Reductions per year: 23'000 t CO₂
 DOE: RINA
 Standard: VCS



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